WHAT IS CLAIMED IS:

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1	Ana	d device	comprising:

a plurality of flaps, each of said flaps comprising a first face, a second face, and a first support supporting a turn of each said flap, wherein said first face, said second face and said first support make an isosceles triangle shape in a plane view, said first support having a first step and a second step to receive edges of neighboring flaps;

a plurality of hinge axes, each of said plurality of hinge axes coupled to each of said first supports;

a plurality of first pinions, each of said first pinions mounted on each of said hinge axes; and a rack engaged with said plurality of first pinions, each of said plurality of flaps turning on each of said hinge axes according to a movement of said rack, whereby said first and second faces can be alternately exposed to an outside according to a position of said rack.

- 2. The ad device of claim 1, wherein said rack is a mass body in a stick form.
- 3. The ad device of claim 1, further comprising:
- a couple of first magnets mounted on both ends of said rack; and
- a couple of second magnets fixed to said ad device in a position corresponding to said couple of first magnets, whereby said first magnets and said second magnets are coupled to each other to prevent a movement of said plurality of flaps as soon as said plurality of flaps finish turning.

1	4.	The ad device of claim 1, further comprising:
2	a seco	nd support mounted between said plurality of first pinions and said plurality of flaps,
3	said second s	upport having a plurality of said thrust bearings, each of said hinge axes passing
4	through each	of said thrust bearings; and
5	a plura	ality of rolling bearings mounted on the bottom of said rack.
1	5.	The ad device of claim 1, wherein said rack is a chain type transmitting rack having
2	teeth on an in	ner part of said rack.
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1	6.	The ad device of claim 5, further comprising:
2	a moto	or; and
3	a seco	nd pinion coupled to said motor, said second pinion engaged with said teeth of said
4	rack to transfe	er a driving force of said motor to said plurality of flaps through said rack and said first
5	pinions.	
1	7	The ad device of claim 6, further comprising:
2	a cont	roller controlling said motor.
1	8.	The ad device of claim 7, wherein said motor is a static driving motor.

- 9. The ad device of claim 6, further comprising a board attached on said ad device, wherein said turn of said flaps comes to a standstill at three positions including a first position to show said first face, a second position to show said second face and a third position to show said board.
 - 10. The ad device of claim 9, further comprising a controller to control said motor.
 - 11. The ad device of claim 10, wherein said controller controls said motor to periodically show one of said first face, said board and said second face.
 - 12. The ad device of claim 5, wherein said rack is made of rubber.
 - 13. An ad device, comprising:
- a frame;

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- a changing board comprising a plurality of flaps mounted in said frame, each of said flaps comprising a first face, a second face, and a first support supporting a rotation of said flap, said first face, said second face and said first support making an isosceles triangle shape in a plane view, said each flap being able to rotate a full half circle, said first support having a first step and a second step receiving edges of neighboring flaps to make an exposed surface of said changing board flat;
- a plurality of hinge axes, each of said plurality of hinge axes coupled to each of said first supports;

10	a plurality of first pinions, each of said first pinions mounted on each of said hinge axes;
11	a rack engaged with said plurality of first pinions, said each flap rotating on each of said
12	hinge axes according to a movement of said rack;
13	a couple of first magnets mounted on both ends of said rack; and

a couple of second magnets fixed to said frame in a position corresponding to said couple of first magnets, whereby said first magnets and said second magnets are coupled to each other to prevent a movement of said plurality of flaps as soon as said plurality of flaps finish rotating.

- 14. The device in claim 13, wherein said rack is a mass body in a stick form.
- 15. The ad device of claim 13, further comprising:
- a second support mounted between said plurality of first pinions and said plurality of flaps, said second support having a plurality of thrust bearings, each of said hinge axes passing through each of said thrust bearings; and
 - a plurality of rolling bearings mounted on the bottom of said rack.
 - 16. An ad device, comprising:
- a frame;

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a changing board comprising a plurality of flaps mounted in said frame, each of said flaps comprising a first face, a second face, and a first support supporting a rotation of said flap, said first face, said second face and said first support making an isosceles triangle shape in a plane view, said

6	each flap being able to rotate a full half circle, said first support having a first step and a second step
7	receiving edges of neighboring flaps to make an exposed surface of said changing board flat;
8	a plurality of hinge axes, each of said plurality of hinge axes coupled to each of said first
9	supports;
0	a plurality of first pinions, each of said first pinions coupled to each of said hinge axes;
1	a rack having teeth on an inner side of said rack, said teeth engaged with said plurality of first
2	pinions, each of said plurality of flaps rotating on each of said hinge axes according to a movement
3	of said rack;
4	a second pinion engaged with said teeth of said rack;
5	a motor coupled to said second pinion, whereby a driving force of said motor is transferred
6	to said first pinions through said second pinion and said rack to rotate said plurality of flaps; and
7	a board mounted within an frame, wherein said flaps come to a standstill at positions

- 17. The ad device of claim 16, further comprising:
- a controller controlling said motor.

a third position to show said board.

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18. The ad device of claim 17, wherein said controller controls said motor to periodically show one of said first face, said billboard, and said second face.

comprising a first position to show said first face, a second position to show said second face, and

19. The ad device of claim 18, wherein said rack is made of rubber.